Nemeth Update: Rule XIV §86c

Contracted Form of Underlining of Single Letters/Digits

Approved April 2013

The BANA Mathematics Braille Technical Committee recommended and the BANA Board approved the following addition to Rule XIV §86c in April 2013. This update adds the construction of a shortened form showing underlining of single digits or letters to Rule XIV **Modifiers**. This is a new section. The change is effectively immediately.

RULE XIV—MODIFIERS

§86. Modified Expressions:

c. When the expression being modified is a single digit or a letter, lower-case or capitalized, from any alphabet, and in any type form, and when the modifier is the horizontal bar **directly under** such a single digit or letter, the digit or letter, followed by the **directly under symbol and bar** serve to express the modification. This construction should be regarded as a contracted form of expression and must be used whenever applicable. If the modification includes a superscript, subscript, or prime, the five-step rule of a above must be followed. The five-step rule may be used in conjunction with the contracted form without fear of confusion.

[§86a(1) example of x with subscribed bar should be removed. Renumber the rest of the examples.]

(1) <u>x</u>

(x with subscribed bar)

(2) $\underline{x} + \underline{y}$ ⠸⠭⠨⠬⠽⠨

(x with subscribed bar plus y with subscribed bar)

(3) $\underline{x}y$ ⠸⠭⠨⠽

(x with subscribed bar, times y)

(4) $x\underline{y}z$ ⠭⠸⠽⠨⠵

(x, times y with subscribed bar, times z)

(5) $\underline{x}^2$ ⠸⠭⠨⠘⠆

(x with subscribed bar squared)

(6) $\underline{x}'$ ⠸⠭⠨⠄

(x with subscribed bar primed)

(7) $\underline{x}_1$ ⠸⠭⠨⠡⠂

(x with subscribed bar, sub 1)

(8) $\underline{x}_n$ ⠸⠭⠨⠡⠝

(x with subscribed bar, sub n)

(9) $\underline{\mathbf{Z}}$ ⠰⠠⠵⠨

(boldface capital Z with subscribed bar)

(10)

Write the place value of the underlined digit.

1. 9$\underline{6}$5,132.4 ⠼⠊⠸⠋⠂⠁⠉⠃⠲⠙
2. 3.04$\underline{9}$2 ⠼⠉⠲⠚⠙⠸⠊⠃
3. 12.$\underline{7}$52 ⠼⠁⠃⠲⠸⠛⠢⠃
4. 94,23$\underline{7}$.1 ⠼⠊⠙⠂⠃⠉⠸⠛⠲⠁